

Table C-108a. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1991-2001

[Dollars in millions]

Field of science and engineering	1991	1992	1993	1994	1995	1996	1997	1998	1999	Preliminary	
										2000	2001
Total, all fields	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9	15,613.0	17,443.7	18,981.7	20,274.4
Life sciences, total	5,433.6	5,841.7	6,288.8	6,472.1	6,601.3	6,879.0	7,203.8	7,853.4	9,197.1	10,374.4	10,964.6
Biol & agricultural, total	3,374.9	3,517.6	3,787.8	3,751.9	3,836.5	3,922.4	3,945.1	4,222.3	4,941.6	NA	NA
Biol (excl environmental)	2,868.5	2,981.8	3,222.5	3,139.2	3,248.3	3,387.2	3,391.0	3,653.0	4,236.9	NA	NA
Environmental biology	186.9	201.6	223.2	242.1	220.6	205.7	206.1	196.8	280.2	NA	NA
Agricultural	319.4	334.2	342.2	370.6	367.5	329.5	348.1	372.5	424.5	NA	NA
Medical sciences	1,857.7	2,131.0	2,380.9	2,610.3	2,615.9	2,740.8	3,035.2	3,392.4	3,956.5	NA	NA
Life sciences, n.e.c.	201.0	193.1	120.1	109.9	148.9	215.9	223.4	238.6	299.1	NA	NA
Psychology, total	225.5	122.6	246.8	246.1	278.0	291.5	293.9	312.0	347.3	408.7	425.6
Biological aspects	68.2	14.3	18.1	24.8	31.4	33.5	30.2	27.3	12.2	NA	NA
Social aspects	69.2	16.9	16.0	16.3	22.2	10.1	13.0	12.9	9.9	NA	NA
Psychological sci, n.e.c.	88.1	91.4	212.7	205.0	224.4	248.0	250.7	271.8	325.1	NA	NA
Physical sciences, total	2,881.5	2,951.4	2,907.1	2,826.9	2,864.8	2,862.6	2,976.4	2,941.4	3,089.8	3,217.6	3,401.0
Astronomy	612.3	729.7	663.4	724.8	731.6	708.8	754.2	706.9	718.4	NA	NA
Chemistry	538.7	556.6	543.7	540.3	559.4	550.7	517.8	517.5	554.6	NA	NA
Physics	1,644.9	1,607.5	1,600.6	1,502.3	1,507.4	1,545.6	1,561.7	1,579.8	1,693.8	NA	NA
Physical sciences, n.e.c.	85.5	57.6	99.4	59.6	66.4	57.4	142.6	137.1	122.9	NA	NA
Environmental sciences, total	1,263.5	1,303.6	1,533.5	1,516.5	1,467.5	1,554.0	1,543.5	1,528.7	1,615.7	1,630.6	1,722.3
Atmospheric sciences	449.0	435.2	635.1	698.3	688.2	671.2	679.5	655.2	671.0	NA	NA
Geological sciences	499.0	526.5	555.3	487.8	451.7	390.0	388.3	391.2	412.1	NA	NA
Oceanography	197.5	210.0	207.2	190.2	188.2	309.1	303.5	286.0	383.9	NA	NA
Environmental sci, n.e.c.	118.0	131.9	135.9	140.2	139.3	183.8	172.1	196.4	148.7	NA	NA
Math & computer sci, total	426.1	481.4	511.3	521.7	603.0	639.6	661.4	705.5	734.9	760.8	920.1
Mathematics	164.4	228.2	221.8	247.7	164.0	162.6	238.2	250.7	254.0	NA	NA
Computer sciences	223.5	247.7	284.3	262.3	317.1	376.8	389.5	419.1	438.3	NA	NA
Math & computer sci, n.e.c.	38.2	5.5	5.1	11.8	121.9	100.2	33.6	35.6	42.6	NA	NA
Engineering, total	1,233.7	1,249.8	1,207.4	1,290.4	1,448.9	1,612.1	1,583.0	1,594.4	1,639.7	1,716.9	1,870.3
Aeronautical	256.2	245.1	246.2	275.9	271.0	261.7	269.1	285.2	331.7	NA	NA
Astronautical	69.7	94.4	53.6	59.8	66.3	71.8	69.8	68.0	66.2	NA	NA
Chemical	101.7	105.0	72.8	70.9	66.7	59.8	68.1	52.3	55.2	NA	NA
Civil	59.3	53.4	38.7	38.1	70.1	52.9	45.4	35.9	68.8	NA	NA
Electrical	142.5	165.4	203.1	205.7	204.6	201.5	172.9	213.9	185.6	NA	NA
Mechanical	115.6	113.9	142.6	141.6	164.7	113.2	104.9	106.7	99.6	NA	NA
Metallurgy & materials	294.6	273.6	241.3	330.2	368.5	501.8	462.6	478.2	481.2	NA	NA
Engineering, n.e.c.	194.3	199.2	209.1	168.3	236.9	349.4	390.4	354.3	351.4	NA	NA
Social sciences, total	161.3	139.9	194.1	184.0	206.7	212.5	221.0	224.8	246.5	273.4	299.8
Anthropology	12.7	11.0	10.0	9.7	15.1	12.7	14.8	13.5	13.4	NA	NA
Economics	37.3	39.3	46.0	38.4	44.7	39.4	46.1	41.5	45.3	NA	NA
Political science	7.1	6.4	6.4	4.8	7.1	5.7	4.9	4.6	4.8	NA	NA
Sociology	28.2	10.2	11.1	13.1	14.3	13.3	8.2	23.5	9.2	NA	NA
Social sciences, n.e.c.	75.9	72.9	120.6	118.1	125.5	141.3	147.0	141.7	173.9	NA	NA
Other sciences, n.e.c.	545.6	399.4	510.1	465.6	406.9	412.8	459.0	452.7	572.5	599.3	670.6

NOTES: Because of rounding, detail may not add to totals.

Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.

During the Vol. 45 survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.

The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the fiscal year 1996 field of science data (such as mechanical engineering).

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001